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February 17, 1967

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P. O. Box 6788  
Fort Davis Station  
Washington, D. C. 20020

Declass Review by NGA.

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Attention:

Reference:

Subject: Monthly Report

Gentlemen:

Enclosed are five (5) copies of the 31st Monthly Letter  
Report covering the period of January 1, 1967, to  
January 31, 1967, in accordance with the referenced  
contract.

Yours truly,

INFORMATION SYSTEMS  
MARKETING AND PLANNING DEPARTMENT

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WK:ks

Encs: one (1) to Contracting Officer  
four (4) directly to Technical Monitor ✓

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CONTACT DUPLICATING AND RESEAU PRINTER

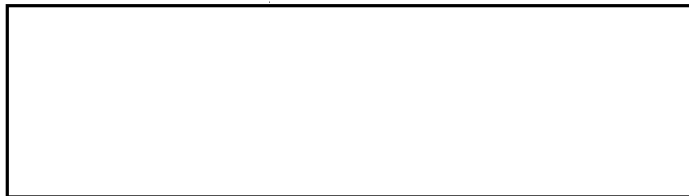
AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

THIRTY-FIRST MONTHLY LETTER REPORT

February 10, 1967

Period: Jan. 1, 1967 to Jan. 31, 1967



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## 1.0 CONTACT DUPLICATING AND RESEAU PRINTER

### 1.1 Purpose

The overall objective of the current contract is the design, fabrication, test and delivery of a photographic step and repeat Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will be suitable for operational use. The printer will accommodate films of 70mm to 9½" width with frame lengths up to 30 inches and will provide operation in the Reseau mode and selective mode as options.

### 1.2 Activity of this Report Period

The Printer arrived at [ ] on January 4, 1967 and was operational on January 9, 1967. Planning, procurement, and drafting were initiated. All major drawings, purchased components, and fabricated parts are now on hand. The Film Metering Mechanism components are being bench-checked for operation before assembly.

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A concurrence meeting with the program monitors was held on January 23, 1967 to review plans and schedules.

Sample Reseau prints have been furnished to [ ] for testing of the revised Pre-View & Punch Station. A meeting with the program monitors was held at [ ] on January 30, 1967 to demonstrate punching accuracy on sample grids.

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### 1.3 Plans for Next Period

Complete installation and wiring of Film Metering Mechanism. Test and calibrate system. Balance

photocell/lamp circuitry for optimum performance on negatives of .2 to 3.2 density. Accomplish planned modifications to Upper Drawer and Raw Stock Metering device.

A number of experimental modifications will be tried to minimize film distortion during printing.

The errata sheet and comments concerning the Operations Manual will be reviewed for action.

#### 1.4 Problems

It appears that inflation of the air-bag during the printing cycle distorts the films on the platen resulting in distorted Reseau lines. The problem is being investigated and a number of fixes are being considered.

The Pre-View & Punch Station showed repeatable accuracy of  $\pm 5$  microns in the center scope position, but was unsuccessful in the outboard positions due to rotation of the scope barrel and reticle. Final alignment and demonstration is expected in early February.

#### 1.5 Documentation

Two sepia copies of each of nine drawings concerning the Pre-View & Punch Station were transmitted to the Government monitors.

#### 1.6 Questions Outstanding

None

### 2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

#### 2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision step and repeat, photographic contact printer. This

printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll film of widths varying from 70mm to 9½" and in preselected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this Report Period

There was no activity this month. The Stop-Work period expired 11 January 66.  is still awaiting Government direction.

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